

### **Abstract**

The present invention provides current regulation. The circuit includes a current regulation loop that includes a second control signal that is used to adjust the magnitude of the regulated current. The second control signal provides a signal that 5 regulates the amount of current being supplied to a load. According to one embodiment of the invention, at least one current source is used to modulate the magnitude of the regulated current when a predetermined condition occurs. The predetermined condition may relate to temperature, current, voltage, and the like.